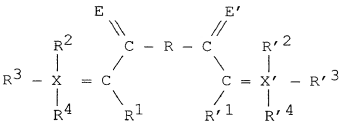
ABSTRACT

PROCESS FOR THE POLYMERIZATION OF OLEFINS IN THE PRESENCE OF NICKEL COMPLEXES AND CORRESPONDING CATALYTIC SYSTEM

This system consists of (A) at least one ligand (I) and (B) at least one nickel compound chosen from nickel complexes of zero oxidation state; π-allylnickels; and compounds of the bis(allyl)nickel type.



(I)

where E, E′ = O, S; X, X′ = P, As, Sb; R^1, R'^1 = H, alkyl, aryl, arylalkyl, alkylaryl, halogen, OH, alkoxide $-C(=O)-OR'$, where R′ = a hydrocarbon radical of the C_1-C_{15} type;
$-SO_3Y$ where Y = Li, Na, NH_4^+, NR''_4^+ (R″ = C_1-C_{15} hydrocarbon radical); R^2, R'^2, R^3, R'^3, R^4 and R'^4 = alkyl, arylalkyl; and R = divalent radical.